

2004 EIQ Changes

Regional/Local Workshop

November 4, 2004

Topics:

- 1)Form Changes
- 2)Reporting Thresholds
- 3)EZ Form
- 4)HAP Reporting

Form Changes

- Form 1.0, 2.0, 3.0
- Must go out to industry for 45-day comment period
- Mailed out 10/22/04

STATE OF MISSOURI
 Department of Natural Resources
 Air Pollution Control Program
 205 Jefferson Street, P.O. Box 176
 Jefferson City, Missouri 65102

Emissions Inventory Questionnaire (EIQ)
 FORM 1.0 GENERAL PLANT INFORMATION

Shaded Areas for Office Use Only

Facility Name				FIPS County No.		Plant No.		Year of Data 2004	
Facility Street Address				County Name		Region		Classification	
City				ZIP Code		Facility Phone Number			
Facility Mailing Address				Product/Principal Activity				SIC	
City				ZIP Code		Number of Employees		Land in Acres	
Facility Contact Person				Where to Send EIQ in Future (Check One) <input type="checkbox"/> Facility Mailing Address <input type="checkbox"/> Parent Co. Mailing Address					
Latitude		Longitude		UTM Coordinates					
Degrees			Zone	Easting (m)		Northing (m)			
Minutes			CSTR Legal Description						
Seconds			(1/4)	(1/4)	Section	Township	Range		
Parent Company Name				Contact Person			Phone Number		
Mailing Address				City			State	ZIP Code	
TOTAL PLANT EMISSIONS FROM FORM 3.0 (TONS PER YEAR)									
PM10	SOx	NOx	VOC	CO	Lead	HAPs	PM2.5	NH3	
The undersigned hereby certifies that they have personally examined and are familiar with the information and statements contained herein and further certifies that they believe this information and statements to be true, accurate and complete. The undersigned certifies that knowingly making a false statement or misrepresenting the facts presented in this document is a violation of state law.									
Print Name of Person Completing Form				Title		Check Amount			
Signature				Date		Check Number			
Print Name of Authorized Company Representative				Title		Check Date			
Signature				Date		OFFICE USE ONLY			
						Logged in By		Date Received	

FORM 2.0 EMISSION POINT INFORMATION

Facility Name				FIPS County No.		Plant No.		Year of Data					
[1] POINT IDENTIFICATION													
Point No.		SIC Code		Point Description									
Source Classification Code (SCC)				Emission Factor Units		Number of SCCs Used with this Point			Seg. No.				
SCC Description													
[2] STACK/VENT PARAMETERS (Emission Release Point Parameters)													
Stack No.		Height (Ft)		Diameter (Ft)		For a non-circular stack: Diameter = $(1.128A)^{1/2}$ (A = Cross Sectional Area in sq. feet)							
Temperature (F)		Velocity (Ft/Min)		Flow Rate (Cu Ft/Min)		List other points sharing this stack.							
[3] AIR POLLUTION CONTROLS													
Device No.	Device Code	Description of Control Device		Capture Efficiency (%)	PM10	SOx	NOx	VOC	CO	Lead	HAPs	PM2.5	NH3
[4] OPERATING RATE/SCHEDULE													
Annual Throughput				Units	Hours/Day		Jan-Mar (%)		Apr-Jun (%)				
Maximum Hourly Design Rate				Units/Hr	Days/Week		Jul-Sep (%)		Oct-Dec (%)				
MHDR Restrictions? Yes No					Weeks/Year								
EMISSIONS CALCULATIONS													
Source of Emission Factor: (List below in [6])					AP 42/Other Reference		[5] List other worksheets.						
1. CEM 2. Stack Test 3. Mass Balance 4. AP-42 or FIFE 5. Other 6. Eng Calc					a. Worksheet Number (Please identify worksheet)								
Air Pollutant	[6]	[7] Emission Factor (Lbs/Unit)	[8] Ash or Sulfur (%)	[9] Overall Control Efficiency (%)	[10] Actual Emissions (Tons/Yr)	Maximum Hourly (Lbs/Hr)	Potential Controlled (Tons/Yr)	Potential Uncontrolled (Tons/Yr)					
PM10													
SOx													
NOx													
VOC													
CO													
Lead													
HAPs													
PM2.5													
NH3													

Form Changes

- Form 1.0: Plantwide SIC code
- Form 2.0: Maximum Hourly Design Rate
 - Clarified definition: The maximum hourly operating rate possible for the equipment associated with the emission point *at full efficiency and with no restrictions on its production levels.*
 - Yes/No Indicator: indicates whether the process includes any bottlenecks, permit restrictions, or other restrictions that would cause the reported Maximum Hourly Design Rate (MHDR) to not be a true measure of the maximum hourly operating rate for the facility.
- Form 3.0: Ammonia and PM2.5

Reporting Thresholds

- Previous threshold: 200 lbs per unit
- New threshold varies depending on pollutant
- One ton (2000 lb) threshold for SO_x, NO_x, and CO
- 876 lb threshold for VOC, PM10, PM2.5, and NH₃ (exempt limit for construction permits)

EZ Form

- For 2004, criteria have been changed to:
 - $< \underline{5}$ tons of any criteria pollutant
 - $< \underline{10}$ tons total
 - No change w/regard to HAPs

HAP Reporting

- Category 1 HAPs (20 lb limit)
 - Arsenic Compounds
 - Asbestos
 - Chromium Compounds
 - Hydrazine
 - 2,3,7,8 Tetrachlorodibenzo-p-dioxin
- Category 2 HAPs (200 lb limit)
 - All other HAPs from EPA's list of 189
- Criteria is being clarified
 - Persistent, biocumulative, & toxic (PBT) chemicals
 - Human carcinogens per EPA criteria
- Reclassifying HAPs (PM10, VOC, neither)

HAP Reporting

- New list for Category A: 23 HAPs

Chemical Abstracts Service Number	Pollutant
1332-21-4	Asbestos
71-43-2	Benzene (including benzene from gasoline)
92-87-5	Benzidine
542-88-1	Bis(chloromethyl) ether
106-99-0	1,3-Butadiene
57-74-9	Chlordane
107-30-2	Chloromethyl methyl ether
76-44-8	Heptachlor
118-74-1	Hexachlorobenzene
72-43-5	Methoxychlor
1336-36-3	Polychlorinated Biphenyls (PCBs) (Aroclors)
1746-01-6	2, 3, 7, 8 – Tetrachlorodibenzo- <i>p</i> -dioxin
8001-35-2	Toxaphene
1582-09-8	Trifluralin
75-01-4	Vinyl chloride
8007-45-2	Coke Oven Emissions
20-01-9	Arsenic Compounds (inorganic including arsine)
20-06-4	Chromium Compounds
20-11-1	Lead Compounds
20-13-3	Mercury Compounds (Alkyl and Aryl)
20-13-3	Mercury Compounds (Inorganic)
20-14-4	Nickel Compounds
TP15	Polycyclic Organic Matter